

| | | | | |
|----|------|---|------|--|
| Qy | 3652 | TTCGACTTGGGTAACCTGCTTGGACGAGGTTCCGGTGGCACCCCTGCTCCMGGGG | 421 | |
| Db | 121 | TTGACTTGGTAAAGCTGCTTGGACGAGGTTCCGGTGGCACCCCTGCTCCMGGGG | 180 | |
| Qy | 422 | CTCTCCCTGCGCTCCMGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGGG | 481 | |
| Db | 181 | CTCTCCCTGCGCTCCMGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGGG | 240 | |
| Qy | 482 | TCTCTGGGAGGAACTTGTGCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 541 | |
| Db | 241 | TCTCTGGGAGGAACTTGTGCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 300 | |
| Qy | 542 | TGGCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 601 | |
| Db | 301 | TGGCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 360 | |
| Qy | 602 | CTTGCTTGTATCTACGTGTCAGAGTCAGAGTCAGAGTCAGAGTCAGAGTCAG | 661 | |
| Db | 361 | CTTGCTTGTATCTACGTGTCAGAGTCAGAGTCAGAGTCAGAGTCAGAGTCAG | 420 | |
| Qy | 662 | TCTATGAGCAGGATCACCTGGGCAATCTGGCTCTGCTTGTGCTTGTGCTTGTG | 721 | |
| Db | 421 | TCTATGAGCAGGATCACCTGGGCAATCTGGCTCTGCTTGTGCTTGTGCTTGTG | 480 | |
| Qy | 722 | CTGGTACCCCTGGGATGGGCAATCTGGCTCTGCTTGTGCTTGTGCTTGTGCTTGT | 781 | |
| Db | 481 | CTGGTACCCCTGGGATGGGCAATCTGGCTCTGCTTGTGCTTGTGCTTGTGCTTGT | 540 | |
| Qy | 782 | AAATCCCTACCCCT | 841 | |
| Db | 541 | AAATCCCTACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT | 600 | |
| Qy | 842 | TCTATCCCACTCAGGGAGGTGAGCCGCCAAGCTGGCCGGCACCTACTCT | 901 | |
| Db | 601 | TCTATCCCACTCAGGGAGGTGAGCCGCCAAGCTGGCCGGCACCTACTCT | 660 | |
| Qy | 902 | TTCTGAACTCTTCAAGGCAACGCAATACATGCGGACGACAGTGGCTGGGC | 961 | |
| Db | 661 | TTCTGAACTCTTCAAGGCAACGCAATACATGCGGACGACAGTGGCTGGGC | 720 | |
| Qy | 962 | TGGTGCTCTTCCACCAATTAAACAGGGGACGCCAAGCTGGCTGGCTGGC | 1021 | |
| Db | 721 | TGGTGCTCTTCCACCAATTAAACAGGGGACGCCAAGCTGGCTGGCTGGC | 780 | |
| Qy | 1022 | TCACTCTCCCTGGGCTTCTCAGGGGGATCTCTGGCCCTCTGGGGCTTGGC | 1081 | |
| Db | 781 | TCACTCTCCCTGGGCTTCTCAGGGGGATCTCTGGCCCTCTGGGGCTTGGC | 840 | |
| Qy | 1082 | CACTGAACTGGGAGCTAACCTAACCGCAATGGGCTTGGCTGGCTGGCTGGC | 1141 | |
| Db | 841 | CACTGAACTGGGAGCTAACCTAACCGCAATGGGCTTGGCTGGCTGGCTGGC | 900 | |
| Qy | 1142 | CTCTGGTCTGCTAGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 1201 | |
| Db | 901 | CTCTGGTCTGCTAGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 960 | |
| Qy | 1202 | GCTTTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 1261 | |
| Db | 961 | GCTTTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 1020 | |
| Qy | 1262 | AGACAGGGCTCCCTGGAGACTCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 1321 | |
| Db | 1021 | AGACAGGGCTCCCTGGAGACTCTGGCTGGCTGGCTGGCTGGCTGGCTGGC | 1281 | |
| Qy | 1322 | GGACCAATGAGGACCAAGGGAGCCAACTCTGGCTGGCTGGCTGGCTGGC | 1381 | |
| Db | 1081 | GGACCAATGAGGACCAAGGGAGCCAACTCTGGCTGGCTGGCTGGCTGGC | 1140 | |
| Qy | 1382 | CCAGATCTGGAGACCCCTAGCCCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 1441 | |
| Db | 1141 | CCAGATCTGGAGACCCCTAGCCCTGGCTGGCTGGCTGGCTGGCTGGC | 1200 | |
| Qy | 1442 | CCCCCTGCGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG | 1501 | |

RESULT 2
US-10-162-012-43
Sequence 43, Application US/10162012
Publication No. US200303051660A1
GENERAL INFORMATION:
APPLICANT: Curtiss, Rory A.J.
APPLICANT: Silos-Santiago, Inmaculada
APPLICANT: Gu, Wei
TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS
FILE REFERENCE: 10448-190001
CURRENT APPLICATION NUMBER: US/10/162,012
CURRENT FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: US 60/209,845
PRIOR FILING DATE: 2000-06-06
PRIOR APPLICATION NUMBER: US 09/875,321
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: PCT/US01/18340
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: US 60/209,257
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: US 09/875,423
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: PCT/US01/18398

PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/209,238
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: US 09/875,363
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: PCT/US01/18247
PRIOR FILING DATE: 2001-06-05
PRIOR APPLICATION NUMBER: US 60/227,068
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: US 09/928,530
PRIOR FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: PCT/US01/25475
PRIOR FILING DATE: 2001-08-15
PRIOR APPLICATION NUMBER: US 60/226,770
PRIOR FILING DATE: 2000-08-21
PRIOR APPLICATION NUMBER: US 09/934,421
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: PCT/US01/26096
PRIOR FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: US 60/279,281
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: US 10/109,029
PRIOR FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: PCT/US02/09728
PRIOR FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 60/290,288
PRIOR FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: US (not assigned)
NUMBER OF SEQ ID NOS.: 49
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 43

| | | | |
|----|------|---|------|
| Db | 645 | TCCCTATGAGGAGGATACCGTGGCATCGGCTCTCATGGCTCAACTATGCA | 704 |
| Qy | 718 | CTGGCTGATCCCTGGGATGAGGACATGTTGCTGGCAGCAGCTGACCTGCTGTC | 777 |
| Db | 705 | CTGGCTGATCCCTGGGATGAGGACATGTTGCTGGCAGCAGCTGACCTGCTGTC | 764 |
| Qy | 778 | CTGCAATCCCTAGCCTCTTGGGATGAGGACATGTTGCTGGCAGCAGCTGCTGTC | 837 |
| Db | 765 | CTGCAATCCCTAGCCTCTTGGGATGAGGACATGTTGCTGGCAGCAGCTGCTGTC | 824 |
| Qy | 838 | GACCTCATCCAACTCAGGAGTGAACGCCAAAGCTGGAGGCCAGGTAC | 897 |
| Db | 825 | GACCTCATCCAACTCAGGAGTGAACGCCAAAGCTGGAGGCCAGGTAC | 884 |
| Qy | 898 | TCCCTCTGGACCTCTTACGGGACGGATAACATGAGGGAGGACACAGTGGCTG | 957 |
| Db | 885 | TCCCTCTGGACCTCTTACGGGACGGATAACATGAGGGAGGACACAGTGGCTG | 944 |
| Qy | 958 | GGGCTGTTGCTCTTCCAGGAACAACTAACAGGGAGCCAAAGTGTGTGTATGCCTCCACC | 1017 |
| Db | 945 | GGGCTGTTGCTCTTCCAGGAACAACTAACAGGGAGCCAAAGTGTGTGTATGCCTCCACC | 1004 |
| Qy | 1018 | ATCTTACGCTCGTTGGTTCCATGGGGATCTCAACGGGACCTCTGCTCTGCTT | 1077 |
| Db | 1005 | ATCTTACGCTCGTTGGTTCCATGGGGATCTCAACGGGACCTCTGCTCTGCTT | 1064 |
| Qy | 1078 | GCGCAAGTGAAGTGGAGCTACCCCTACCGCAATGGCTGGGCTGGGCTGGGCTGGG | 1137 |
| Db | 1065 | GCGCAAGTGAAGTGGAGCTACCCCTACCGCAATGGCTGGGCTGGGCTGGGCTGGG | 1124 |
| Qy | 1138 | AGGGCTGTTGCTGTTGCTAGCTGGCTCTCATGGCCCTGCTCGTCAGTGGCATAGGCCCT | 1197 |
| Db | 1125 | AGGGCTGTTGCTGTTGCTAGCTGGCTCTCATGGCCCTGCTCGTCAGTGGCATAGGCCCT | 1184 |
| Qy | 1198 | GTCAGCTTGGCTGCCATGAGCTAGGCCAAAGTGTCTGGCTGCTGGCTGCTGGCTG | 1257 |
| Db | 1185 | GTCAGCTTGGCTGCCATGAGCTAGGCCAAAGTGTCTGGCTGCTGGCTGCTGGCTG | 1244 |
| Qy | 1258 | GCGCAAGACGGCTCCCTGGAGACTGGCTGGCTGGCTGGAGACTCTCTACGCCATT | 1317 |
| Db | 1245 | GCGCAAGACGGCTCCCTGGAGACTGGCTGGCTGGCTGGAGACTCTCTACGCCATT | 1304 |
| Qy | 1318 | CCAAGGACCAATGAGGACCAAGGGACCAATCTTGGCACTCTGCTAGAAAACCAAGCCC | 1377 |
| Db | 1305 | CCAAGGACCAATGAGGACCAAGGGACCAATCTTGGCACTCTGCTAGAAAACCAAGCCC | 1364 |
| Qy | 1378 | CATCCAGATCTGGAGACCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCT | 1437 |
| Db | 1365 | CATCCAGATCTGGAGACCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCT | 1424 |
| Qy | 1438 | GGGCCCTCTGGCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCT | 1497 |
| Db | 1425 | GGGCCCTCTGGCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCTCAGGCCCT | 1484 |
| Qy | 1498 | ATGGTTTGTGCTGCTCTCATGGCTCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT | 1557 |
| Db | 1485 | ATGGTTTGTGCTGCTCTCATGGCTCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT | 1544 |
| Qy | 1558 | GAGATTAACCTGTGGAGATACGAGGAAAGACCCCTGGCTTCAGCTGCAACTGG | 1617 |
| Db | 1545 | GAGATTAACCTGTGGAGATACGAGGAAAGACCCCTGGCTTCAGCTGCAACTGG | 1604 |
| Qy | 1618 | GCGGCCAACCTCTGGCTCTACGGAACTGAGCTCTGGCTGGCTGGCTGGCTGGCT | 1677 |
| Db | 1605 | GCGGCCAACCTCTGGCTCTACGGAACTGAGCTCTGGCTGGCTGGCTGGCTGGCT | 1664 |
| Qy | 1678 | TGGACCTTCTCTGGCTCTACGGAACTGAGCTCTGGCTGGCTGGCTGGCTGGCT | 1737 |
| Db | 1665 | TGGACCTTCTCTGGCTCTACGGAACTGAGCTCTGGCTGGCTGGCTGGCTGGCT | 1724 |
| Qy | 1738 | GTTCTCTGAAACAAAAGGCCAACCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT | 1797 |

| | | | |
|----|------|--|------|
| Db | 1725 | GTTCCTGAAACAAAAGCCAGTGGTTCAGAGATAAACAGAGTCAGGG | 1784 |
| Qy | 1798 | TTCACCTGAGCTTGGCCACAGGCCAAACTCCACTGGCATCCCGTACAGGCCATCGAG | 1857 |
| Db | 1785 | TTCACCTGAGCTTGGCCACAGGCCAAACTCCACTGGCATCCCGTACAGGCCATCGAG | 1844 |
| Qy | 1858 | ATCTCTGGCCCTCTGGAACTCGTGCTGG-ATTCTCGAACTGTCCTTGGCA | 1916 |
| Db | 1845 | ATCTCTGGCCCTCTGGAACTCGTGCTGGCAATTCTGGAACTGTCCTTGGCA | 1904 |
| Qy | 1917 | GACCATTCGACCATCTGGCTTCAGTCAGCTGGCTTCAGTCAGCTGG | 1976 |
| Db | 1905 | GACCATTCGACCATCTGGCTTCAGTCAGCTGGCTTCAGTCAGCTGG | 1964 |
| Qy | 1977 | GAGTGGCCCTGCCCCAAAGTGCTTTCGCTGGTAAAGGATGAAAGTTG | 2036 |
| Db | 1965 | GAGTGGCCCTGCCCCAAAGTGCTTTCGCTGGTAAAGGATGAAAGTTG | 2024 |
| Qy | 2037 | AGAATGCCAACTCTCATTTGGGTTAGGGCTCTAGGATCTAGTTTC | 2096 |
| Db | 2025 | AGAATGCCAACTCTCATTTGGGTTAGGGCTCTAGGATCTAGTTTC | 2084 |
| Qy | 2097 | ATGCCCTGGTTTCCCATTGACTTGGACATTTGGAGTTTATAGAAAGATACTTA | 2156 |
| Db | 2085 | ATGCCCTGGTTTCCCATTGACTTGGACATTTAGAAAGATACTTA | 2144 |
| Qy | 2157 | TGAAGTCTTGTGCCCCATGGATTTCAGAATCTCAGGGTACCAATCCGGCA | 2216 |
| Db | 2145 | TGAAGTCTTGTGCCCCATGGATTTCAGAATCTCAGGGTACCAATCCGGCA | 2204 |
| Qy | 2217 | CGAGGTTTTCCGATATCACCCCTAAATCAAATGAGGATATCATCTTCTAATCT | 2276 |
| Db | 2205 | CGAGGTTTTCCGATATCACCCCTAAATCAAATGAGGATATCATCTTCTAATCT | 2264 |
| Qy | 2277 | TTCCTCAACTGCTGGGACATTTCGGGAAAGCTCTTCTTACTCTTATGATT | 2336 |
| Db | 2265 | TTCCTCAACTGCTGGGAAAGCTCTTCTTACTCTTATGATTCA- | 2322 |
| Qy | 2337 | TTTTTTGGGGAGGACATTTCGGGAACTCTTCTGTTGAGTCTCACTG | 2396 |
| Db | 2323 | TTTTTTGGGGAGGACATTTCGGGAACTCTTCTGTTGAGTCTCACTG | 2382 |
| Qy | 2397 | GAACCTCCACTCCCTGGGATTTCAGCGATTTCCTGCCCTAAGTAGCTGGGGAT | 2456 |
| Db | 2383 | GAACCTCCACTCCCTGGGATTTCAGCGATTTCCTGCCCTAAGTAGCTGGGGAC | 2442 |
| Qy | 2457 | TACAGGGGCCACCAACCCAGCTAATTTCAGCAGAGTGGGGTTCACTGT | 2516 |
| Db | 2443 | TACAGGGGCCACCAACCCAGCTAATTTCAGCAGAGTGGGGTTCACTGT | 2502 |
| Qy | 2517 | GTGGCAGGGCTGCTGGAACCTCTGAGCTTTCAGTCAGCTCCAG | 2576 |
| Db | 2503 | GTGGCAGGGCTGCTGGAACCTCTGAGCTTTCAGTCAGCTCCAG | 2562 |
| Qy | 2577 | ATGCTCTGGGATTACAGGCCTTGTACTCTTATTCTGAGTTTATTGACCCCTTAATTTC | 2636 |
| Db | 2563 | ATGCTCTGGGATTACAGGCCTTGTACTCTTATTCTGAGTTTATTGACCCCTTAATTTC | 2622 |
| Qy | 2637 | TCTTACCCAGAAATTTATCCCTTCAACCTCTGACTCTGAGCTTCAGT | 2696 |
| Db | 2623 | TCTTACCCAGAAATTTATCCCTTCAACCTCTGACTCTGAGCTTCAGT | 2682 |
| Qy | 2697 | TCTAGCTCTGGTCTGCTGGCTTGTACTCTTATTCTGAGTTTATTGACCCCTTAATTTC | 2756 |
| Db | 2683 | TCTAGCTCTGGTCTGCTGGCTTGTACTCTTATTCTGAGTTTATTGACCCCTTAATTTC | 2742 |
| Qy | 2757 | ATTTGTTATAATGGGAAGCCGTACCTTAAAGATTCTCTGACTCCAGTGAG | 2816 |
| Db | 2743 | ATTTGTTATAATGGGAAGCCGTACCTTAAAGATTCTCTGACTCCAGTGAG | 2802 |
| Qy | 2817 | CTGGAACTCTAAATGCTGGCTTGTAGGACTCTCCAGATGGTCAAGTGA | 2876 |
| Db | 2803 | CTGGAACTCTAAATGCTGGCTTGTAGGACTCTCCAGATGGTCAAGTGA | 2862 |

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|----|-----------------|--|------|----|------|---|------|
| Qy | 3957 | TCACTAGTGTAAACAAAATTCAACCGGACATTGATGCCGAACCTATACCCATTCCTCAG | 4016 | Qy | 478 | GCCATCCCTCGGGAGCACTTGGCAGGCCCTGGCTGACGCCCTGGCTGCGCTGGCTGCGCTG | 537 |
| Db | 3943 | TCACTAGTGTAAACAAAATTCAACCGGACATTGATGCCGAACCTATACCCATTCCTCAG | 4002 | Db | 465 | GCCATCCCTCGGGAGCACTTGGCAGGCCCTGGCTGACGCCCTGGCTGCGCTGGCTGCGCTG | 524 |
| Qy | 4017 | TGCCCTAGCTGCTACGTTATCGGGATTTTATGCTGATGCTGATGCTGAACTATCATGCC | 4076 | Qy | 468 | | 597 |
| Db | 4003 | TGCCCTAGCTGCTACGTTATCGGGATTTTATGCTGATGCTGATGCTGAACTATCATGCC | 4062 | Db | 538 | TCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 525 |
| Qy | 4077 | CAAATCGCAGTGTGATGATGTTGACTTGGATAACAGTTGGCTAATTCGTTGCTAATTCG | 4062 | Qy | 525 | TCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 584 |
| Db | 4063 | CAAATCGCAGTGTGATGATGTTGACTTGGATAACAGTTGGCTAATTCGTTGCTAATTCG | 4122 | Qy | 598 | ATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 657 |
| Qy | 4134 | CAAAATATCTGTAGAACTAATTGGCTATATGCTGAACTTGGATAACAGATAATTACAT | 4193 | Db | 585 | ATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 644 |
| Db | 4123 | CAAAATATCTGTAGAACTTGGCTATATGCTGAACTTGGATAACAGATAATTACAT | 4182 | Qy | 658 | TCCCTCTATGAGGAGGCTACCGTGTGGGATCCCTCTCTCTCTCTCTCTCTCTCTCTCT | 717 |
| Qy | 4194 | AAAGRATATTACATAAAGAGTTATTATTGTAAGTGTGGAAACAACATACC | 4253 | Db | 645 | TCCCTCTATGAGGAGGCTACCGTGTGGGATCCCTCTCTCTCTCTCTCTCTCTCTCTCT | 704 |
| Db | 4183 | AAAGRATATTACATAAAGAGTTATTATTGTAAGTGTGGAAACAACATACC | 4242 | Qy | 718 | CTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 777 |
| Qy | 4254 | CITTTATCTGTGAAATTATTAACACAAAAATTAAAGATTCTGCTGAAATTATT | 4313 | Db | 705 | CTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 764 |
| Db | 4243 | CITTTATCTGTGAAATTATTAACACAAAAATTAAAGATTCTGCTGAAATTATT | 4302 | Qy | 778 | CTGGCAATCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 837 |
| Qy | 4314 | GGCTPATATGAAATTAGGATAAGATAATTACATAAAGGATTATTACATAAAGA | 4368 | Db | 765 | CTGCAATCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 824 |
| Db | 4303 | GGCTPATATGAAATTAGGATAAGATAATTACATAAAGGATTATTACATAAAGA | 4357 | Qy | 838 | GACCTCATCCCTACTCGAGGAGGTAGGCCGCCCCAGCTGGCCGCCAGCGTAC | 897 |
| Qy | 3 | RESULT 3 | | Db | 825 | GACCTCATCCCTACTCGAGGAGGTAGGCCGCCCCAGCTGGCCGCCAGCGTAC | 884 |
| Qy | US-10-144-624-1 | Sequence 1, Application US/10144624 | | Qy | 898 | TCCCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTG | 957 |
| | | Publication No. US20030113841A1 | | Db | 885 | TCCCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTGACCTCTG | 944 |
| | | GENERAL INFORMATION: | | Qy | 958 | GGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1017 |
| | | APPLICANT: Curtis, Rory A. J. | | Db | 945 | GGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1004 |
| | | APPLICANT: Gu, Wei | | Qy | 1018 | ATCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1077 |
| | | TITLE OF INVENTION: 8105, A NOVEL HUMAN SUGAR TRANSPORTER | | Db | 1005 | ATCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1064 |
| | | FILE REFERENCE: 10448-154001 | | Qy | 1078 | GGCCAGTGTAGGCTGGCCAGTACCTGACCCATTGGCTGAGCTGAGCTGAGCTGAGCT | 1113 |
| | | CURRENT APPLICATION NUMBER: US/10/144-624 | | Db | 1065 | GGCCAGTGTAGGCTGGCCAGTACCTGACCCATTGGCTGAGCTGAGCTGAGCTGAGCT | 1124 |
| | | PRIOR APPLICATION NUMBER: 2002-05-13 | | Qy | 1138 | AGGGCTCTGTTGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1197 |
| | | PRIOR FILING DATE: 2001-05-11 | | Db | 1125 | AGGGCTCTGTTGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1184 |
| | | NUMBER OF SEQ ID NOS: 6 | | Qy | 1198 | GTCAGACAGGCCCTCTGGCTGAGACTCTGCCCTCTGGCTGAGCTGGCTGAGCTGG | 1257 |
| | | SOFTWARE: Fast-SEQ for Windows Version 4.0 | | Db | 1185 | GTCAGCTTGTGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1244 |
| | | SEQ ID NO: 1 | | Qy | 1258 | GGCCAGACAGGCCCTCTGGCTGAGACTCTGCCCTCTGGCTGAGCTGGCTGAGCTGG | 1317 |
| | | LENGTH: 4385 | | Db | 1245 | GGGGAGACAGGCCCTCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGG | 1304 |
| | | TYPE: DNA | | Qy | 1318 | CCTGGAGCAATGAGGCTAAAGGAGCAATCTGGCTGAGCTAACAAACCAAGGCC | 1377 |
| | | ORGANISM: Homo sapiens | | Db | 1305 | CCAGGACAATGAGGCTAAAGGAGCAATCTGGCTGAGCTAACAAACCAAGGCC | 1364 |
| | | FEATURE: | | Qy | 1378 | CATCCAGATCTGGAGGAGCCCTAGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTG | 1437 |
| | | NAME/KEY: CDS | | Db | 1365 | CATCCAGATCTGGAGGAGCCCTAGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTG | 1424 |
| | | LOCATION: (174) ... (1859) | | Qy | 1438 | GGGCCCTCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1497 |
| | | US-10-144-624-1 | | Db | 1425 | GGGCCCTCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1484 |
| | | Query Match | | Qy | 1498 | ATGGCTTGTGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1557 |
| | | Best Local Similarity 91.7% | | Db | 1485 | ATGGCTTGTGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1544 |
| | | Score 4029; DB 15; Length 4385; | | Qy | 1498 | GGGCCCTCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1477 |
| | | Matches 4089; Conservative 0; Mismatches 40; Indels 6; Gaps 3; | | Db | 1485 | GGGCCCTCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCTGGCTGAGCT | 1404 |

| | | | | | |
|----|------|---|------|--|------|
| Qy | 1558 | GAGATCTACCCCTGTTGAGATAACGAGGAAGGCTTCCTGCTTCACAGCTTCACCTGG | 1617 | | 2682 |
| Db | 1545 | GAGATCTACCCCTGTTGAGATAACGAGGAAGGCTTCCTGCTTCACAGCTTCACCTGG | 1604 | | |
| Qy | 1618 | GCSCCAACCTCTCATAGCCCTCCCTCCCTCATGTCATCCAGCTTCAGCTTCACCTGG | 1677 | | 2756 |
| Db | 1605 | GCSCCAACCTCTCATAGCCCTCCCTCCCTCATGTCATCCAGCTTCAGCTTCACCTGG | 1664 | | 2742 |
| Qy | 1618 | TGACCTCTCTGCTCATAGCCCTCCCTCATGTCATCCAGCTTCAGCTTCACCTGG | 1737 | | 2816 |
| Db | 1655 | TGACCTCTCTGCTCATAGCCCTCCCTCATGTCATCCAGCTTCAGCTTCACCTGG | 1724 | | 2802 |
| Qy | 1738 | GTTCCTGAAACAAAGCCAGTCAGCAAGAGAGACGG | 1797 | | 2876 |
| Db | 1735 | GTTCCTGAAACAAAGCCAGTCAGCAAGAGAGACGG | 1784 | | 2862 |
| Qy | 1798 | TTACCCCTGAGCTTGGCAACGGAGACTCCACCTGACCTGGCATCG | 1857 | | 2936 |
| Db | 1785 | TTACCCCTGAGCTTGGCAACGGAGACTCCACCTGACCTGGCATCG | 1844 | | 2922 |
| Qy | 1858 | ATCTCTGGGGCTCTGAGAAATCGTGTGCTGG - ATTTCCTGAACTCTGGCTTGGCA | 1916 | | 2996 |
| Db | 1815 | ATCTCTGGGGCTCTGAGAAATCGTGTGCTGGAAATTCTGGACTGGCTTGGCA | 1904 | | 2982 |
| Qy | 1917 | GACATCTCCAGATCTGCTCTAGGCCCAAGGCAAACTTCCAGCTGCTCTTGG | 1976 | | 3056 |
| Db | 1905 | GACATCTCCAGATCTGCTCTAGGCCCAAGGCAAACTTCCAGCTGCTCTTGG | 1964 | | 3042 |
| Qy | 1977 | GATGGCCCTGCCCTGGGGCTTGGGGTAAAGGATGAAAGTTG | 2036 | | 3116 |
| Db | 1955 | GATGGCCCTGCCCTGGGGTAAAGGATGAAAGTTG | 2024 | | 3102 |
| Qy | 2027 | AGATGCCAAATTCTTCATTTGGTTCTGGGACTCTAGTTTC | 2096 | | 3176 |
| Db | 2025 | AGATGCCAAACTCTTCAGGTCAGGCCCTGAGGATCTGGGACTCTAGTTTC | 2084 | | 3162 |
| Qy | 2097 | ATGCCCTGGGTTTCCCATTTGACATTTTGACATTATAGAGGATAATTCTCA | 2156 | | 3236 |
| Db | 2085 | ATGCCCTGGGTTTCCCATTTGACATTATAGAGGATAATTCTCA | 2144 | | 3222 |
| Qy | 2157 | TGAAGTCTTTCGGATGTTTCAGAGAATCTCAGGGTACCAATCCGGGCA | 2216 | | 3296 |
| Db | 2145 | TGAAGTCTTTCGGATGTTTCAGAGAATCTCAGGGTACCAATCCGGCA | 2204 | | 3282 |
| Qy | 2217 | GGAGGTTTTCGGATATACCCCTAAATCCGAGATATCATCTTAACTCT | 2276 | | 3356 |
| Db | 2205 | GGAGGTTTTCGGATATACCCCTAAATCCGAGATATCATCTTAACTCT | 2264 | | 3342 |
| Qy | 2227 | TTTTCACTGCTGGGAAACTCTGGGAACTGGGAACTCTGGGAACTCTGGGAA | 2336 | | 3416 |
| Db | 2215 | TTTTCACTGCTGGGAACTGGGAACTCTGGGAACTCTGGGAACTCTGGGAA | 2322 | | 3402 |
| Qy | 2337 | TTTTTGTGAGCTGGAGTCATTCTGTTGGCCAGACTGCTTCAGCT | 2396 | | 3476 |
| Db | 2323 | TTTTTGTGAGCTGGAGTCATTCTGTTGGCCAGACTGCTTCAGCT | 2382 | | 3462 |
| Qy | 2397 | CAACCTCCACTCTGGGTCACCCACCCAGTATTGAGGATGGGAT | 2456 | | 3536 |
| Db | 2383 | CAACCTCCACTCTGGGTCACCCACCCAGTATTGAGGATGGGAT | 2442 | | 3522 |
| Qy | 2457 | TACGGCCCTGGCACCACCCAGTATTGAGGATGGGTTCACTGT | 2516 | | 3596 |
| Db | 2443 | TACGGCCCTGGCACCACCCAGTATTGAGGATGGGTTCACTGT | 2502 | | 3582 |
| Qy | 2517 | GTTGGCCGGCTGGCTGACTGCTTCAGCTTCAGCTTCAGCTTCAG | 2576 | | 3656 |
| Db | 2503 | GTTGGCCGGCTGGCTGACTGCTTCAGCTTCAGCTTCAGCTTCAG | 2562 | | 3642 |
| Qy | 2577 | AGTGTAGGATTAAGGCTTTCAGGCTTTCAGGCTTTCAGGCTTTCAG | 2636 | | 3716 |
| Db | 2563 | AGTGTAGGATTAAGGCTTTCAGGCTTTCAGGCTTTCAGGCTTTCAG | 2622 | | 3702 |
| Qy | 2637 | TCTTACCAAGAATTTGTTGTTGATGAGGAGCTTCAAGACATCTG | 2696 | | 3776 |

PRIOR APPLICATION NUMBER: US 60/227,068
 PRIOR FILING DATE: 2000-08-22
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 48
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 43
 LENGTH: 4385
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (174) ... (1859)
 US-10-162-102-43

Query Match 91.7%; Score 4029; DB 16; Length 4385;
 Best Local Similarity 98.9%; Pred. No. 0;
 Matches 4089; Conservative 0; Mis-matches 40; Indels 6; Gaps 3

Qy 238 GTCGGCTCCATGGCACTCCACCTGGCTCTGTCCTCTGTCCTTG
 Db 225 GCCCCCTCTTCAGTCGGCACTCCACCTGGCTCTGTCCTTG
 Qy 298 CTGGCTGGCCGACCTTGGTTGTTAAGAACCTGGCACTCATATCAGGGCCCTGCTGGCACTG
 Db 285 CTGGCTGGCTGACCTTGGTTGTTAAGAACCTGGCACTG
 Qy 358 CAGCTTGACTCTGGCTAAAGCTGGCTGGGGAGGTTCTGGCACTGCTGGTGGACCTGGTGG
 Db 345 CAGCTTGACTCTGGCTAAAGCTGGCTGGGGAGGCTGGTGGTGGACCTGGTGG
 Qy 418 GGGGTCTCTCGCCCTGGTGGCTGGCTGGCTGGCTGGCTGG
 Db 405 GGGGTCTCTCGCTCTGGCTCTGGTGGCTGGCTGGCTGG
 Qy 478 GCAATCCGGGGAGAACATTGGCTGCTGCTGCTGCTGGTGG
 Db 465 GCAATCTGGGAACTTGGCTGGCTGGCTGGCTGGCTGG
 Qy 538 TCCCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Db 525 TCCCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Qy 598 ATGGCTTGTGTATCTAATTGGCTGGCTGGCTGGCTGG
 Db 585 ATGGCTTGTGTATCTAATTGGCTGGCTGGCTGGCTGG
 Qy 658 TCCCTCTATGAGGGGGCATACGGTGGCTGGCTGGCTGG
 Db 645 TCCCTCTATGAGGGGGCATACGGTGGCTGGCTGGCTGG
 Qy 718 CTGGCTGATACCCCTGGGGATGGCACATGCTGGCTGGCTGG
 Db 705 CTGGCTGATACCCCTGGGGATGGCACATGCTGGCTGGCTGG
 Qy 778 CNGCATCCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Db 765 CNGCATCCTGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Qy 838 GACCTCATCCACTCAGGGAGGTGAGCCCCAAAGCTGGCCAGCTGCTG
 Db 825 GACCTCATCCACTCAGGGAGGTGAGCCCCAAAGCTGGCCAGCTGCTG
 Qy 898 TCCCTTCGGACTCTTCAGGGCAAGCTGGCCAGGAGGGCTG
 Db 885 TCCCTTCGGACTCTTCAGGGCAAGCTGGCCAGGAGGGCTG
 Qy 958 GGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Db 945 GGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Qy 1018 ATCTTCAGTCGGTGGCTGGCTGGCTGGCTGGCTGGCTGG
 Db 1005 ATCTTCAGTCGGTGGCTGGCTGGCTGGCTGGCTGGCTGG

RESULT 4
 US-10-162-102-43
 Sequence 4.3, Application US/10162102
 Publication No. US20030232336A1
 GENERAL INFORMATION:
 APPLICANT: Curris, Rory A.J.
 APPLICANT: Silos-Santiago, Inmaculada
 APPLICANT: Gu, Wei
 TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS
 FILE REFERENCE: 10448-150001
 CURRENT APPLICATION NUMBER: US/10/162,102
 CURRENT FILING DATE: 2003-04-04
 PRIOR APPLICATION NUMBER: US 60/209,845
 PRIOR FILING DATE: 2000-06-06
 PRIOR APPLICATION NUMBER: US 09/875,321
 PRIOR FILING DATE: 2001-06-06
 PRIOR APPLICATION NUMBER: PCT/US01/18340
 PRIOR FILING DATE: 2001-06-05
 PRIOR APPLICATION NUMBER: US 09/875,423
 PRIOR FILING DATE: 2001-06-05
 PRIOR APPLICATION NUMBER: PCT/US01/18398
 PRIOR APPLICATION NUMBER: US 60/209,238
 PRIOR FILING DATE: 2000-06-05
 PRIOR APPLICATION NUMBER: US 09/875,363
 PRIOR FILING DATE: 2001-06-05
 PRIOR APPLICATION NUMBER: PCT/US01/18247
 PRIOR FILING DATE: 2001-06-05

| | | | | | | | |
|----|------|---|------|----|------|---|------|
| QY | 3018 | TATATTAGACCCCTTTTCAGGAGGTCCTCCAGGCTGTCAGGCTGGAAATT | 3077 | Db | 3810 | TTGGATAACAGGTGCGAAAAAATATTACAAATATTCTGTAAGAACTATT | |
| Db | 2730 | TATATTAGACCCCTTTTCAGGAGGTCCTCCAGGCTGTCAGGCTGGAAATT | 2789 | Qy | 4156 | GGCTATGGAAATTAGATAAGGATAATTACATAAAGATAATTACATAAAGATT | 421 |
| Qy | 3078 | TCTACTTACCTCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC | 3137 | Db | 3870 | GTCATATGGAAATTAGATAAGGATAATTACATAAAGATAATTACATAAAGATT | 392 |
| Db | 2790 | TCTACTTACCTCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC | 2849 | Qy | 4218 | TATTATATTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGA | 427 |
| Qy | 3138 | AGATCGGGACTGTGCAAGTAGCTATGACTGCGACATCACTGAAAGGACTAACAA | 3197 | Db | 3930 | TATTATATTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGA | 398 |
| Db | 2850 | AGATCGGGACTGTGCAAGTAGCTATGACTGCGACATCACTGAAAGGACTAACAA | 2909 | Qy | 4278 | CACAAAATTACAAAGGATCTGAGAATTCTGAGAATTCTGAGAATTCTGAGA | 433 |
| Qy | 3198 | AGCTCCAGATGCTCGGGCAATGAGAGCTAAATAGATCTCTAGGTGGATGCTTG | 3257 | Db | 3990 | CACAAAATTACAAAGGATCTGAGAATTCTGAGAATTCTGAGAATTCTGAGA | 404 |
| Db | 2910 | AGCTCCAGATGCTGGGAAATGAGAGCTAAATAGATCTCTAGGTGGATGCTTG | 2969 | Qy | 4338 | TATTACATAAAGGTTACAT | 4363 |
| Qy | 3258 | TCTCCCT | 3317 | Db | 4050 | TATTACATAAAGGTTACAT | 4075 |
| Db | 2970 | TCTCCATCGTGCACATATGGGCTGACATATGGGTGCTGGAGGCCAGGACTG | 3029 | | | | |
| Qy | 3318 | TCTCCCT | 3377 | | | | |
| Db | 3030 | TCTCCATCT | 3089 | | | | |
| Qy | 3378 | TTGCGCAAGGTTGCTAGGCTGCTACATTTCAGGTTTTCAGGTTGCTAAACCA | 3437 | | | | |
| Db | 3050 | TTGCGCAAGGTTGCTAGGCTGCTACATTTCAGGTTTTCAGGTTGCTAAACCA | 3149 | | | | |
| Qy | 3438 | AGCCATTAAATAAATTAATGTTAAATTAATGTTAAATTAATGTTAAATTAACAA | 3497 | | | | |
| Db | 3150 | AGCCATTAAATAAATTAATGTTAAATTAATGTTAAATTAATGTTAAATTAACAA | 3209 | | | | |
| Qy | 3498 | AAATTTACTCAAATTCATTACTTAATTTACTACCTGTTACTATTACCTGCTTT | 3557 | | | | |
| Db | 3210 | AAATTTACTCAAATTCATTACTTAATTTACTACCTGCTTTACTATTACCTGCTTT | 3269 | | | | |
| Qy | 3558 | GAGGCTATTCTACATCAACTCTTATGAGCTCTGGAGACACCGCCTCTCTCT | 3617 | | | | |
| Db | 3270 | GAGGCTATTCTACATCAACTCTTATGAGCTCTGGAGACACCGCCTCTCTCT | 3329 | | | | |
| Qy | 3618 | CTGATCCCCACTCAATCAATCATATGTTACTCTTACTCTTACTCTTACTCT | 3677 | | | | |
| Db | 3330 | CTGATCCCCACTCAATCAATCATATGTTACTCTTACTCTTACTCTTACTCT | 3389 | | | | |
| Qy | 3678 | GTTTTGCTATCACAAAGATTAGAGGACTACATCAGCTGGGTGTTATTTGTTG | 3737 | | | | |
| Db | 3390 | GTTTTGCTATCACAAAGATTAGAGGACTACATCAGCTGGGTGTTATTTGTTG | 3449 | | | | |
| Qy | 3738 | ATTTCTAGACTCAGACATGCTGGATAAATGCTGAAATTACTTAAG | 3797 | | | | |
| Db | 3450 | ATTTCTAGACTCAGACATGCTGGATAAATGCTGAAATTACTTAAG | 3509 | | | | |
| Qy | 3798 | TATGTCGTGTGTAGCCATACATGCTGGATAAGGAGGTTACTCT | 3857 | | | | |
| Db | 3510 | TATGTCGTGTGTAGCCATACATGCTGGATAAGGAGGTTACTCT | 3569 | | | | |
| Qy | 3858 | CCAGTACTGIAACTCTCATCGTCACTGCTGCTGCTGCTGCTGCTGCTG | 3917 | | | | |
| Db | 3630 | CCAGTACTGIAACTCTCATCGTCACTGCTGCTGCTGCTGCTGCTGCTG | 3689 | | | | |
| Qy | 3978 | TCAACAGGACTTACATGCCGAACTTACATCCGTTACGTCAGTGTACATCA | 4037 | | | | |
| Y | 3570 | CCAGTACTGIAACTCTCATCGTCACTGCTGCTGCTGCTGCTGCTGCTG | 3629 | | | | |
| Y | 3918 | GTTCGACATTCATTCTCATCTCTTACTCTTACTCTTACTCTTACTCTTACT | 3977 | | | | |
| Y | 3690 | GTTCGACATTCATTCTCATCTCTTACTCTTACTCTTACTCTTACTCTTACT | 3749 | | | | |
| Y | 4038 | GGGATTATTCTGCTAGTCTTGTCAATTCTGCTGCTGCTGCTGCTGCTG | 4097 | | | | |
| Y | 3750 | GGGATTATTCTGCTAGTCTTGTCAATTCTGCTGCTGCTGCTGCTGCTG | 3809 | | | | |
| Y | 4098 | TTGGATAACAGGTTGGCAAAAAAAATTAACAAATACTCTGTAAGAACTA | 4157 | | | | |


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RESULT 10
US-10-162-102-45
; Sequence 45, Application US/10162102
; Publication No. US2003023236A1
; GENERAL INFORMATION:
; APPLICANT: Curtiss, Roy, A.J.
; APPLICANT: Gu, Wei
; APPLICANT: Silos-Santiago, Inmaculada
; TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS
; FILE REFERENCE: 10448-190001
; CURRENT APPLICATION NUMBER: US/10-162,102
; CURRENT FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: US 60/209,845
; PRIOR FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: US 09/875,321
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: PCT/US01/18340
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/209,257
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 09/875,423
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: PCT/US01/18398
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/209,238
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 09/875,363
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: PCT/US01/18247
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/227,068
; PRIOR FILING DATE: 2000-08-22
; Remaining Prior Application data removed - See File Wrapper or P.A.M.
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 45
; LENGTH: 1689
; TYPE: DNA
; ORGANISM: Homo sapiens
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; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/165,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-26
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SBQ ID NO: 136458
; LENGTH: 530
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-136458

Query Match Score 529.6
Best Local Similarity 99.8%; Pred. No. 1
Matches 529; Conservative 1; Mismatch 1

Qy          3058 GTGCCAGGGCCTGGAAATTCTACTTATCC
Ddb          1 GTTCAGGGCCTGGAAATTCTACTTATCC
Qy          3118 GTAAAGGTCAGGGTGAATCAGATGGGGAC
Ddb          61 GTAAAGGTCAGGGTGAATCAGATGGGGAC
Qy          3178 TAAGGAAGGGACTACAAGAAGCTCCAGAT
Ddb          121 TAAGGAAGGGACTACAAGAAGCTCCAGAT
Qy          3238 CTAGGTGCTGATGCTTGTCCATCCAATGG
Ddb          181 CTAGGTGCTGATGCTTGTCCATCCAATGG
Qy          3298 AGGACTCTGGCCTCTCGAGTTCTCTATCTT
Ddb          241 AGGACTCTGGCCTCTCGAGTTCTCTATCTT
Qy          3358 GTGAGTGTGGAGCTGGTAAACAGCCATTATAA
Ddb          301 GTGAGTGTGGAGCTGGTAAACAGCCATTATAA
Qy          3418 TTTACAAGTGGTAACAGCCATTATAA
Ddb          361 TTTACAAGTGGTAACAGCCATTATAA
Qy          3478 GTAAATTACATTAAACAAAAAAATTATAC
Ddb          421 GTAAATTACATTAAACAAAAAAATTATAC
Qy          3538 TACTATATCTGCTGCTTGTAGGGCTATTTC
Ddb          481 TACTATATCTGCTGCTTGTAGGGCTATTTC

RESULT 13
US-10-027-632-136458
; Sequence 136458, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: WANG, David G.
; TITLE OF INVENTION: Identification and Mapping of Polymorphisms in the Human Genome
; TITLE OF INVENTION: Polymorphisms in the Human Genome

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FILE REFERENCE: 106827-129
/
/ CURRENT APPLICATION NUMBER: US/10/0277,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: PabSBQ For Windows Version 4.0
/ SEQ ID NO: 136458
/ LENGTH: 530
/ TYPE: DNA
/ ORGANISM: Human
US-10-0277-632-136458

Query Match 12.1% Score 529.
Best Local Similarity 99.0% Prod. No.
Matches 529; Conservative 1; Mismatches 0

Qy 3058 GGTCCAGGGCCCTGGGAATTCTTACATTC
Db 1 GGTCCAGGGCCCTGGGAATTCTTACATTC
Qy 3118 GTAAGGGTCAAGGTGAATCAGATGGGAA
Db 61 GTAAGGGTCAAGGTGAATCAGATGGGAA
Qy 3178 TAAGGAAGGGACTGACAGAAGTCCAGA
Db 121 TAAGGAAGGGACTGACAGAAGTCCAGA
Qy 3238 CCTAGGGCTGGCTGGCTTGTGATCCATGC
Db 181 CCTAGGGCTGGCTGGCTTGTGATCCATGC
Qy 3298 AGGACTCTGGCTCTCGAGTCTCTATCT
Db 241 AGGACTCTGGCTCTCGAGTCTCTATCT
Qy 3358 GTGATGTGCTGGCTGGCTGGCTTGGCAAGCT
Db 301 GTGATGTGCTGGAGCTGGCTTGGCAAGCT
Qy 3418 TTTCAGTGTGTGTAAACAGACAGCATTAA
Db 361 TTTCAGTGTGTGTAAACAGACAGCATTAA
Qy 3478 GAAATTACATTAACACAAACAAATTATAC
Db 421 GAAATTACATTAACACAAACAAATTATAC
Qy 3538 TTACTATTTCTGTGCTTTGAGCTTATT
Db 481 TTACTATTTCTGTGCTTTGAGCTTATT

```

APPLICANT: Vockley, Joseph G.
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 FILE REFERENCE: AEONICA-X-2
 CURRENT FILING DATE: 2001-12-20
 NUMBER OF SEQ ID NOS: 34288
 SOFTWARE: Annamax Sequence Listing Engine vers. 1.1
 SEQ ID NO: 775
 LENGTH: 593
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AL133520.2
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.7
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.5
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.5
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.7
 OTHER INFORMATION: SWISSPROT HIT: P27446, EVALU 3.00e-01
 OTHER INFORMATION: EST HUMAN HIT: B184797.1, EVALU 0.00e+00
 OTHER INFORMATION: NT HIT: gi|1486183, EVALU 0.00e+00
 US-10-029-386-775

Query Match 12.0%; Score 527.2; Length 593;
 Best Local Similarity 98.5%; Pred. No. 6.3e-113;
 Matches 532; Conservative 0; Mismatches 8; Indels 0; Gaps 0; Gaps 0

Qy 1014 CACCATCTCACTCCGTGGTTCCATGGGGATCTCAGCGTGTGGCTCTGG 1073
 Db 593 CACCATCTCACTCCGTGGTTCCATGGGGATCTCAGCGTGTGGCTCTGG 534
 Qy 1074 GCTTGGCCAGTGAGGGTGGAGCTAACCTGACGGCTGGGGCTGGCGTGG 1133
 Db 533 GCTTGGCCAGTGAGGGTGGCTAACCTGACGGCTGGGGCTGGCGTGG 474
 Qy 1134 CGCAGGGCTCTGTGTGTAGCTGGCTGTGGCTCATGGCCCTGCTGAGG 1193
 Db 473 CGCAGGGCTCTGTGTGTAGCTGGCTGTGGCTCATGGCCCTGAGG 414
 Qy 1194 CCTCGTCAACGTTGCCATGGACTCAGGGCCAAAGCTCTGCCATATGC 1253
 Db 413 CCTCGTCAACGTTGCCATGGACTCAGGGCCAAAGCTCTGCCATATGC 354
 Qy 1254 CACGGGGAGACAGGGCTCCCTGGAGACTCTGGCTGTGAGGACTCTCACCC 1313
 Db 353 CACGGGGAGACAGGGCTCCCTGGAGACTCTGGCTGTGAGGACTCTCACCC 294
 Qy 1314 CATTCCAAAGGCAATGGAGCAAAAGGAGGCAATCTGTCACTGCTGAAACAA 1373
 Db 293 CATTCCAAAGGCAATGGAGCAAAAGGAGGCAATCTGTCACTGCTGAAACAA 234
 Qy 1374 GCCCCATCCAGATCTGGAGCCCTTCGCTGAGCTCTGCCCTGCTGAGGCT 1433
 Db 233 GCCCCATCCAGATCTGGAGCCCTTCGCTGAGCTCTGCCCTGCTGAGGCT 174
 Qy 1434 CCCTGGCCCTTCGCGCTGGGGCATGCCACTCTGGCTGACGCCACTCTGTG 1493
 Db 173 CCCTGGCCCTTCGCGCTGGGGCATGCCACTCTGGCTGACGCCACTCTGTG 114
 Qy 1494 CCTGATGCTCTTGTGATGCTGCTCTGGCTCTGGCTGGCGAGTGCCTCT 1553
 Db 113 CCTGATGCTCTTGTGATGCTGCTCTGGCTGGCTGGCGAGTGCCTCT 54

APPLICANT: Scherf, Uwe
 TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
 FILE REFERENCE: 44921-508-WO
 CURRENT FILING DATE: 2001-06-14
 PRIORITY APPLICATION NUMBER: US 60/211,379
 PRIORITY FILING DATE: 2000-06-14
 PRIORITY APPLICATION NUMBER: US 60/237,054
 PRIORITY FILING DATE: 2000-10-02
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 850
 LENGTH: 528
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: Genbank Accession No. US20020142981A1 AA404352
 US-09-880-107-850

Query Match 12.0%; Score 526.4; Length 528;
 Best Local Similarity 99.8%; Pred. No. 8.9e-113;
 Matches 527; Conservative 0; Mismatches 1; Indels 0; Gaps 0

Qy 3865 TTGAAACACTGTGATCCGTTTCAGCTGACGGCTCTCAANTCATTAAGGAGGTTCTGA 392
 Db 528 TTGAAACACTGTGATCCGTTTCAGCTGACGGCTCTCAANTCATTAAGGAGGTTCTGA 469
 Qy 3925 CATTCACTTTCTGGCTTAATCCACTGTTTCTCTCTGCTCTCTGCTCTCTGCTCT 398
 Db 468 CATTCACTTTCTGGCTTAATCCACTGTTTCTCTCTGCTCTCTGCTCTCTGCTCT 409
 Qy 3985 GCATTCATGGCCAACTTACCCATTCTCACTGCTCTAGCTCTAGTCTGCTCTAGTCTGCTCT 404
 Db 408 GCATTCATGGCCAACTTACCCATTCTCACTGCTCTAGTCTGCTCTAGTCTGCTCT 349
 Qy 4045 TTATCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCT 410
 Db 348 TTATCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCTAGTCTGCTCT 289
 Qy 4105 ACAGGTTTGGAAAGAAAGAAATTAACAAATACTCTGTAAGGAACTTGGCTATA 416
 Db 288 ACAGGTTTGGAAAGAAAGAAATTAACAAATACTCTGTAAGGAACTTGGCTATA 229
 Qy 4165 TGGAAATTAGGATAAGAAATTCTGATAGAAATTCTGATAGAAATTCTGATAGAA 422
 Db 228 TGGAAATTAGGATAAGAAATTCTGATAGAAATTCTGATAGAAATTCTGATAGAA 169
 Qy 4225 ATTTGTAGTGTGTGAAACAAACATGCCCTTATCTCTGTAAGAAATTCTGATAGAA 428
 Db 168 ATTTGTAGTGTGTGAAACAAACATGCCCTTATCTCTGATAGAAATTCTGATAGAA 109
 Qy 4285 ATTAACAAAAGATTCTGTAAGAATTAACTGGCTTATGGGTTATGGGTTATTT 434
 Db 108 ATTAACAAAAGATTCTGTAAGAATTAACTGGCTTATGGGTTATTT 49
 Qy 4345 AATAAAGAGTATTCTGATAGAGTTGTTATTCTGTAAGAATTAACTGGCTTATTT 4392
 Db 48 AATAAAGAGTATTCTGATAGAGTTGTTATTCTGTAAGAATTAACTGGCTTATTT 1

Search completed: June 23, 2004, 21:41:17
 Job time : 1711 secs